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IN THE CLAIMS

**Claim 1 (currently amended).** Pressure-sensitive adhesive comprising the reaction product of:

- a) at least one aliphatic or alicyclic diisocyanate having an asymmetrical molecular structure,
- b) a combination of at least one polypropylene glycol diol and at least one polypropylene glycol triol,

the ratio of the number of hydroxyl groups in the diol component to the number of hydroxyl groups in the triol component being between ~~0.7~~ 1.0 and 9.0 ;

the ratio of the number of isocyanate groups to the total number of hydroxyl groups being between 0.9 and 1.1,

and the diols and triols alternatively being selected and combined in each case as follows:

- diols having a molecular weight of less than or equal to 1000 are combined with triols whose molecular weight is greater than 1000,
- diols having a molecular weight of greater than 1000 are combined with triols whose molecular weight is less than 1000.

**Claim 2 (previously presented).** Pressure-sensitive adhesive according to Claim 1, wherein said at least one aliphatic or alicyclic diisocyanate is selected from the group consisting of 1-isocyanatomethyl-3-isocyanato-1,5,5-trimethylcyclohexane (isophorone diisocyanate), 1-methyl-2,4-diisocyanatocyclohexane, 1,6-diisocyanato-2,2,4-trimethylhexane, 1,6-diisocyanato-2,4,4-trimethylhexane, 5-isocyanato-1-(2-isocyanatoethyl-1-yl)-1,3,3-trimethylcyclohexane, 5-isocyanato-1-(3-isocyanatoprop-1-yl)-1,3,3-trimethylcyclohexane, 5-isocyanato-1-(4-isocyanatobut-1-yl)-1,3,3-trimethylcyclohexane, 1-isocyanato-2-(3-isocyanatoprop-1-yl)cyclohexane, 1-isocyanato-2-(2-isocyanatoethyl-1-yl)cyclohexane, dicyclohexylmethane 2,4'-diisocyanate, 2-heptyl-3,4-bis(9-

isocyanatononyl)-1-pentylcyclohexane, ethylethylene diisocyanate, 2,2,4-trimethylhexamethylene diisocyanate or a chlorinated diisocyanates having an asymmetrical molecular structure, brominated diisocyanates having an asymmetrical molecular structure, sulphur-containing diisocyanates having an asymmetrical molecular structure and phosphorus-containing diisocyanates having an asymmetrical molecular structure.

**Claim 3 (previously presented).** Pressure-sensitive adhesive according to Claim 1 further comprising formulating ingredients selected from the group consisting of catalysts, ageing inhibitors (antioxidants), light stabilizers, UV absorbers and rheological additives.

**Claim 4 (previously presented).** Process for preparing the pressure-sensitive adhesive of claim 1, comprising

- a) charging a first vessel A with a premixed combination of at least one polypropylene glycol diol and at least one polypropylene glycol triol and charging a second vessel B with at least one aliphatic or alicyclic diisocyanate, optionally also charging said first or second vessel, or both of said vessels, with one or more formulating ingredients selected from the group consisting of catalysts, ageing inhibitors (antioxidants), light stabilizers, UV absorbers and rheological additives,
- b) conveying the polyol component and the isocyanate component from said vessels via pumps through a mixing head or mixing tube of a multi-component mixing and metering unit, and mixing them to form a reactive polyurethane composition,
- c) applying the reactive polyurethane composition to a web-form backing material,
- d) passing the backing material with the reactive polyurethane composition thereon through a heating tunnel in which the reactive polyurethane composition cures to form a pressure-sensitive adhesive, and

e) winding the backing material with the pressure-sensitive adhesive thereon up in a winding station.

**Claim 5 (previously presented)** Process according to claim 4, wherein the preparation takes place without solvent.

**Claim 6 (previously presented).** Process according to claim 4, wherein the preparation takes place without addition of water.

**Claim 7 (previously presented).** A self-adhesive article comprising the pressure-sensitive adhesive of claim 1.

**Claim 8 (previously presented).** A method for fixing notes, sheets of paper, calendar pages, strips, cards or boxes made of paperboard, cardboard or plastic, or small utility articles made of plastic, wood, glass, stone or metal, which comprises fixing same with the pressure-sensitive adhesive of claim 1.

**Claim 9 (previously presented).** Pressure sensitive adhesive according to claim 1, wherein said ratio of the number of hydroxyl groups in the diol component to the number of hydroxyl groups in the triol component is between 1.5 and 2.5.

**Claim 10 (previously presented).** Pressure sensitive adhesive according to claim 1, wherein said ratio of the number of isocyanate groups to the total number of hydroxyl groups is between 0.95 and 1.05.

**Claim 11 (previously presented).** Pressure sensitive adhesive according to claim 1, wherein the molecular weight of said triols which are combined with diols having a molecular weight of less than or equal to 1000 is greater than 3000.

**Claim 12 (previously presented). The process of claim 4, wherein said web-from backing material is moving at a constant speed while said reactive polyurethane composition is applied thereto.**